

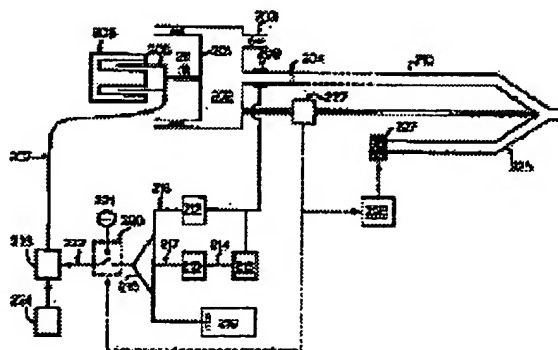
PROPORTIONAL SUPPORT TYPE ARTIFICIAL RESPIRATION METHOD AND DEVICE

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Abstract of JP5115554

PURPOSE: To allow a user to completely control his own respiration in all respects by detecting the flow and capacity of gas supplied in response to a pressure gradient generated by respiration effort, amplifying their signals separately, and providing pressure support for the gas in proportion to their sum.

CONSTITUTION: A chamber 202 accepts gas via a check valve 203, and the gas moves to a patient 208 via a check valve 204 during inhalation. The coil of a linear drive motor 205 pushes and pulls a piston 201 in proportion to driving potential applied via a cable 207. The flow of gas from the chamber 202 to the patient 208 is measured by the flow system 209 of an intake pipe 210 and is adjusted by an external adjustable gain controller 212. A flow signal produces a signal corresponding to an instantaneous intake 214 via an integrator 213, the signal being adjusted by an external adjustable gain controller 215. Flow and capacity signals 216, 217 produce a composite output signal through the use of an addition amplifier 218.



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